CLAIMS

What is claimed is:

1 1.   A method of testing a Web Service as a component comprising the steps

2 of:

3   identifying, on a remote system, a Web Service to be tested;

4   obtaining information relating to the Web Service to be tested;

5   generating a program to exercise the Web Service to be tested;

6   executing the program to exercise the Web Service to be tested; and

7   obtaining results from the Web Service to be tested.

1 2.   The method of claim 1 wherein further comprising the step of verifying

2 that said results are correct.

1 3.   The method of claim 1 wherein said step of identifying includes locating

2 a Web Service descriptor language (WSDL) file for the Web Service.

1 4.   The method of claim 3 wherein said step of identifying further comprises

2 locating a DISCO file, said DISCO file including a list of WSDL files.

1 5.   The method of claim 1 wherein said step of obtaining information relating

2 to the Web Service to be tested includes obtaining information relating to the Web

3 Service interface.

1   6.   The method of claim 1 wherein said step of obtaining information relating

2   to said Web Service to be tested further comprises obtaining information related to

3   the methods of the Web Service.

1   7.   The method of claim 1 wherein said step of obtaining information relating

2   to said Web Service to be tested further comprises obtaining information relating

3   to parameters to be passed to said Web Service.

1   8.   The method of claim 1 wherein said step of executing the program to

2   exercise the Web Service to be tested includes sending and receiving messages

3   with said Web Service.

1   9.   The method of claim 1 wherein said remote system resides on a network.

1   10.   The method of claim 9 wherein said network comprises the Internet.

1   11.   The method of claim 8 wherein said messages are in a SOAP protocol.

1   12.   The method of claim 8 wherein said messages are transported across said

2   network using an HTTP Internet protocol.

1   13.   The method of claim 8 wherein said messages are in an XML format.

1   14.   A computer program product for testing a Web Service as a component,

2   the computer program product comprising a computer usable medium having

3   computer readable code thereon, including program code comprising:

4   instructions for causing a processor to identify, on a remote system,

5   a Web Service to be tested;

6   instructions for causing the processor to obtain information relating

7   to the Web Service to be tested;

8   instructions for causing the processor to generate a program to

9   exercise the Web Service to be tested;

10   instructions for causing the processor to execute the program to

11   exercise the Web Service to be tested; and

12   instructions for causing the processor to obtain results from the Web

13   Service to be tested.

1   15.   The computer program product of claim 13 further comprising instructions

2   for causing the processor to verify said results.

1   16.   The computer program product of claim 14 wherein said instructions for

2   causing a processor to identify includes instructions for causing a processor to

3   locate a Web Service descriptor language (WSDL) file for the Web Service.

1   17.   The computer program product of claim 14 wherein said

2   instructions for causing a processor to identify further comprises instructions for

3   causing a processor to locate a DISCO file, said DISCO file including a list of

4   WSDL files.

1   18.   The computer program product of claim 14 wherein said

2   instructions for causing a processor to obtain information relating to the Web

3   Service to be tested includes instructions for causing a processor to obtain

4   information relating to the Web Service interface.

1   19.   The computer program product of claim 14 wherein said instructions for

2 causing a processor to obtain information relating to said Web Service to be tested

3 further comprises instructions for causing a processor to obtain information

4 related to the methods of the Web Service.

1   20.   The computer program product of claim 14 wherein said instructions for

2 causing a processor to obtain information relating to said Web Service to be tested

3 further comprises instructions for causing a processor to obtain information

4 relating to parameters to be passed to said Web Service.

1   21.   The computer program product of claim 14 wherein said instructions for

2 causing a processor to execute the program to exercise the Web Service to be

3 tested includes instructions for causing a processor to send and receive messages

4 across a network with said Web Service.

1   22.   The computer program product of claim 21 wherein said instructions for

2 causing a processor to send and receive messages comprise instructions for

3 causing a processor to send and receive messages using a SOAP protocol.

1   23.   The computer program product of claim 21 wherein said instructions for

2 causing a processor to send and receive messages with said Web Service

3 comprises instructions for causing a processor to transmit said messages in an

4 HTTP Internet protocol.

1   24.   The computer program product of claim 2 wherein said instructions for

2 causing a processor to send and receive messages with said Web Service comprise

3 instructions for causing a processor to transmit messages in an XML format.